



DRILL-TEC™

#12 Purlin Fastener

Description

The Drill-Tec™ #12 Purlin Fastener is designed for attaching single-ply membrane systems to up to $\frac{3}{16}$ " (4.76 mm) structural steel purlins (16 gauge) in standing seam metal roof retrofit applications. The fastener is coated with an Epoxy E-Coat coating, which passed the corrosion resistance requirements of FM Approval Standard 4470.

Application

Minimum fastener embedment into the purlin should be 1" (25.4 mm). This ensures a minimum of $\frac{1}{4}$ " (6.35 mm) thread penetration into the structural member.

Note: Be careful not to overdrive the fastener causing stress plate surface to deflect more than $\frac{1}{16}$ " (1.59 mm).

Plates & Accessories

For proper fastener/plate selection, please refer to the current GAF published application and specifications manual, available at gaf.com, or contact Technical Support at 1-800-766-3411.

For best installation results, use a high-torque, low-RPM screw gun with a maximum of 1,800 RPM.

Code Approvals



Advantages

The Drill-Tec™ #12 Purlin Fastener has a $\frac{3}{4}$ " (19.1 mm) drill point which allows the screw to quickly drill through the purlin before the threads engage into the standing seam metal roof.

Product Data

Thread Diameter	.207" (5.29 mm)		
Head Diameter	.438" (11.13 mm)		
Head Style	#3 Square		
Shank	.184" (4.67 mm)		
Coating	Epoxy E-Coat		
Length	Thread Length	Packaging (Bucket)	Weight
1 $\frac{3}{8}$ " (34.9 mm)	$\frac{3}{4}$ " (Full) (19.1 mm)	2,500	27.8 lb. (12.61 kg)
2 $\frac{3}{4}$ " (69.9 mm)	2.0" (Full) (50.8 mm)	1,000	20.4 lb. (9.25 kg)
3 $\frac{3}{4}$ " (95.3 mm)	3 $\frac{3}{8}$ " (85.7 mm)	1,000	27.4 lb. (12.43 kg)
4 $\frac{3}{4}$ " (120.7 mm)	3 $\frac{3}{8}$ " (85.7 mm)	1,000	35.1 lb. (15.92 kg)
5 $\frac{3}{4}$ " (146.1 mm)	3 $\frac{3}{8}$ " (85.7 mm)	1,000	41.8 lb. (18.96 kg)
6 $\frac{3}{4}$ " (171.5 mm)	3 $\frac{3}{8}$ " (85.7 mm)	1,000	49.3 lb. (22.36 kg)
7 $\frac{3}{4}$ " (196.9 mm)	3 $\frac{3}{8}$ " (85.7 mm)	500	28.1 lb. (12.75 kg)
8 $\frac{3}{4}$ " (222.3 mm)	3 $\frac{3}{8}$ " (85.7 mm)	500	31.7 lb. (14.38 kg)
9 $\frac{3}{4}$ " (247.65 mm)	3 $\frac{3}{8}$ " (85.7 mm)	500	35.3 lb. (15.99 kg)

Note: All sizes are nominal



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